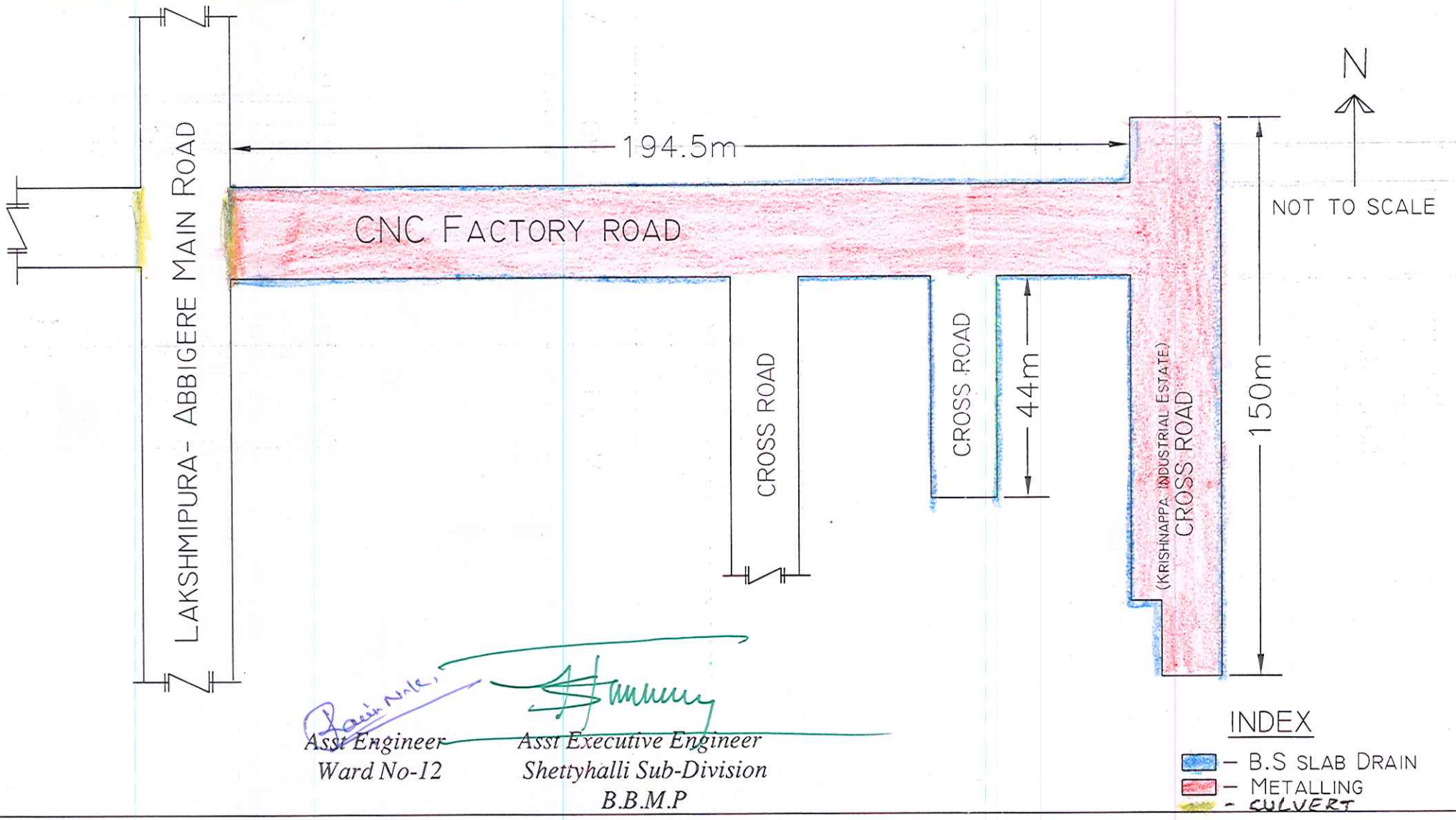
(2)

SKETCH SHOWING IMPROVEMENTS TO ROADS & DRAIND AT INDUSTRIAL AREA BALANCE PORTION AT ABBIGERE LAKSHMIPURA MAIN ROAD, IN WARD NO-12 IN SHETTYHALLI SUB DIVISION.



Asst Engineer
Ward No-12

Asst Executive Engineer
Shettyhalli Sub-Division
B.B.M.P

Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work: Providing improvements to roads & Drains at Industrial area balance portion at Abbigere Lakshmipura main road, in ward no.12, in Shettyhalli Sub-Division

Est .Cost Rs. 20.00 Lakhs

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1: Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH/ Chapter 3. Page No. 138V Item No. 19.2/ PWD SR 2014-15	Cum							
	BS Slab Drain - 1st main road(CNC Factory Road)		2	153.00	0.70	0.70	149.94		
	BS Slab Drain - Cross roads		2	150.00	0.70	0.70	147.00		
	BS Slab Drain - Cross roads		2	44.00	0.70	0.70	43.12		
	Culverts		2	6.00	2.00	1.20	28.80		
							368.86	105.84	**39040.00**
	Basic Rate	98.00							
	Area Weightage 8%	7.84							
		105.84							
2	Providing Granite slabs selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 cms thick Page No. 25/ Item No. 5.31.1/ PWD SR 2014-15	Cum							
	BS Slab Drain		2	153.00		1.80	550.80		
			2	150.00		1.80	540.00		
			2	44.00		1.80	158.40		
							1249.20	639.36	**798689.00**
	Basic Rate	592.00							
	Area Weightage 8%	47.36							
		639.36							
3	KSRB 4-1.4: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.86cum and fine aggregate @ 0.58cum machine mixed, concrete laid in layers not exceeding 15cms. Thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS : 4.1, 4.2, Page No. 12/ Item No. 4.4/ PWD SR 2014-15	Cum							
	For Culverts		2	6.00	2.00	0.15	3.60		

							3.60	4847.04	**17449.00**
	Basic Rate	4,488.00							
	Area Weightage 8%	359.04							
		4,847.04							
4	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregate @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15cms. Thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS : 4.1, 4.2, Page No. 12/ Item No. 4.6/ PWD SR 2014-15	Cum							
	For Side Walls		2x2	6.00	(0.75+ 0.45)/2	0.90	12.96		
							12.96	5327.64	**69046.00**
	Basic Rate	4,933.00							
	Area Weightage 8%	394.64							
		5,327.64							
5	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1:5:3) for raft foundation, column footing, main and secondary beams. Page No. 18/ Item No. 4.48/ PWD SR 2014-15	Cum							
	For RCC Covering 1		2	6.00	1.80	0.23	4.97	Qty1	
							4.97	5847.12	**29048.00**
	Basic Rate	5,414.00							
	Area Weightage 8%	433.12							
		5,847.12							

6	KSRB 4.9.2: providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. for TMT Bars Fe 415. Page No. 17/ Item No. 4.45/ PWD SR 2014-15	Q							
	For Side Walls 5kgs/Sqm	2x2x2x6.0x0.90=43.20x5kg = 216.00kgs/Sqm					2.16		
	For RCC Covering Qty1 80kg/cum						3.97		
							6.13	7975.80	**48927.00**
	Basic Rate	7,385.00							
	Area Weightage 8%	590.80							
		7,975.80							
7	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2014-15	Sqm							
	Walls		2x6	6.00		0.90	64.80		
							64.80	292.68	**18966.00**
	Basic Rate	271.00							
	Area Weightage 8%	21.68							
		292.68							
8	KSRRB 300-1: Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH/ Chapter 3. Page No. 138V Item No. 19.1/ PWD SR 2014-15	Cum							
	Metalling		1	194.50	6.00	0.35	408.45		
			1	150.00	6.00	0.35	315.00		
							723.45	75.60	**54693.00**
	Basic Rate	70.00							
	Area Weightage 8%	5.60							
		75.60							

9	KSRRB M400-14.1: Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specifications including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel/vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/binding Materials to fill up the interstices of coarse aggregates, watering and compacting to the required density Complete as per Specification. A. By manual means. MORTH Specification No. 404. Type A 13.2mm for grading II. Page No. 153/ Item No. 20.14.1/ PWD SR 2014-15	Cum							
	Metalling		1	194.50	6.00	0.15	175.05		
			1	150.00	6.00	0.15	135.00		
							310.05	1672.92	**518689.00**
	Basic Rate	1,549.00							
	Area Weightage 8%	123.92							
		1,672.92							
10	KSRRB M400-14.1: Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specifications including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel/vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/binding Materials to fill up the interstices of coarse aggregates, watering and compacting to the required density Complete as per Specification. A. By manual means. MORTH Specification No. 404. Type B 11.2mm for grading III. Page No. 153/ Item No. 20.14.3/ PWD SR 2014-15	Cum							
	Metalling		1	194.50	6.00	0.075	87.53		
			1	150.00	6.00	0.075	67.50		
	Basic Rate	1,665.00					**155.03**	1798.20	**278766.00**
	Area Weightage 8%	133.20							
		1,798.20							
11	KSRRB 400-1.3: Carriage of mixed materials 10 Kms, For items of Sl.no 1.c) rs. 5.20 per cum/km. Page no 155/ PWD SR 2014-15	Cum							
							465.08	58.05	**26998.00**
	Basic Rate	53.75							
	Area Weightage 8%	4.30							
		58.05							

13	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 10 Km a)Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ... .. Rs. 2.00 Tonne/Km b)Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c)Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. 62.20 (P.150, I.no.18.57/1, PWD SR 2014-15)	Cum					1092.31		79417.40
	Qty Vide Item No=1+2+9						1076.00		
	Qty Limited to						1076.00	72.71	78252.00
	Basic Rate (Rs.2.0 x 1.28 x 2 kms)	5.12							
	Loading and Unloading Charges	62.20					1062.58		77234.20
		67.32							
	Area Weightage 8%	5.39							
	Total	72.71							
14	Miscellaneous and unforseen Charges							272.00	19760.00
15	Add 1% Q.C.Test								20,000.00
								Total	2000000
(Rupees Twenty Lakhs Only)									

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary

2 The Estimate is prepared as per the PWD SR 2014-15

3 The Provision made in estimate are adequate and essential

4 This area comes under BBMP limits.

Ravi. N.K.

Asst Engineer
Ward No-12

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

JNC-012-15-00001A.

ನಂ.CE/DZ/AS/36/14-15/Pg-7. ದಿನಾಂಕ : 29/10/2014
ರೂ. 2000000/- (ರೂಪಾಯಿ ಇಪ್ಪತ್ತು ಲಕ್ಷ) ಗಳ
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
29/10/14
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ:CE/DZ/TS/140/14-15 ದಿನಾಂಕ: 29/10/2014
ರೂ. 20.00 Lakhs (Rupees Twenty Lakhs Only) ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು
29/10